

Process for making an aluminide dispersed ferrite diffusion coating on an austenitic stainless steel substrate.

Patent number: DE3883857T
Publication date: 1994-01-05
Inventor: KRUTENAT RICHARD CAROL (US); BANGARU NARASIMHA-RAO VENKATA (US)
Applicant: EXXON RESEARCH ENGINEERING CO (US)
Classification:
- international: C23C10/50; C23C10/56; C23C10/00; (IPC1-7): C23C10/56; C23C10/34; C23C10/50
- european: C23C10/50; C23C10/56
Application number: DE19883883857T 19880531
Priority number(s): US19870059037 19870608

Also published as:

EP0294987 (A1)
US4835010 (A1)
JP1056861 (A)
EP0294987 (B1)

Report a data error here

Abstract not available for DE3883857T

Abstract of corresponding document: **EP0294987**

A process for the co-diffusion of aluminum and other elements into austenitic steel which includes heating the steel to a temperature at which co-diffusion occurs in the presence of a source of aluminum, a catalyst and metallic or metalloid elements having substantial solubility in ferrite (bcc phase of iron or iron alloy) so that a microstructure is formed on the steel which is a single layer composite and which includes a fine dispersion of compatible aluminide particles in a continuous ductile ferrite matrix.

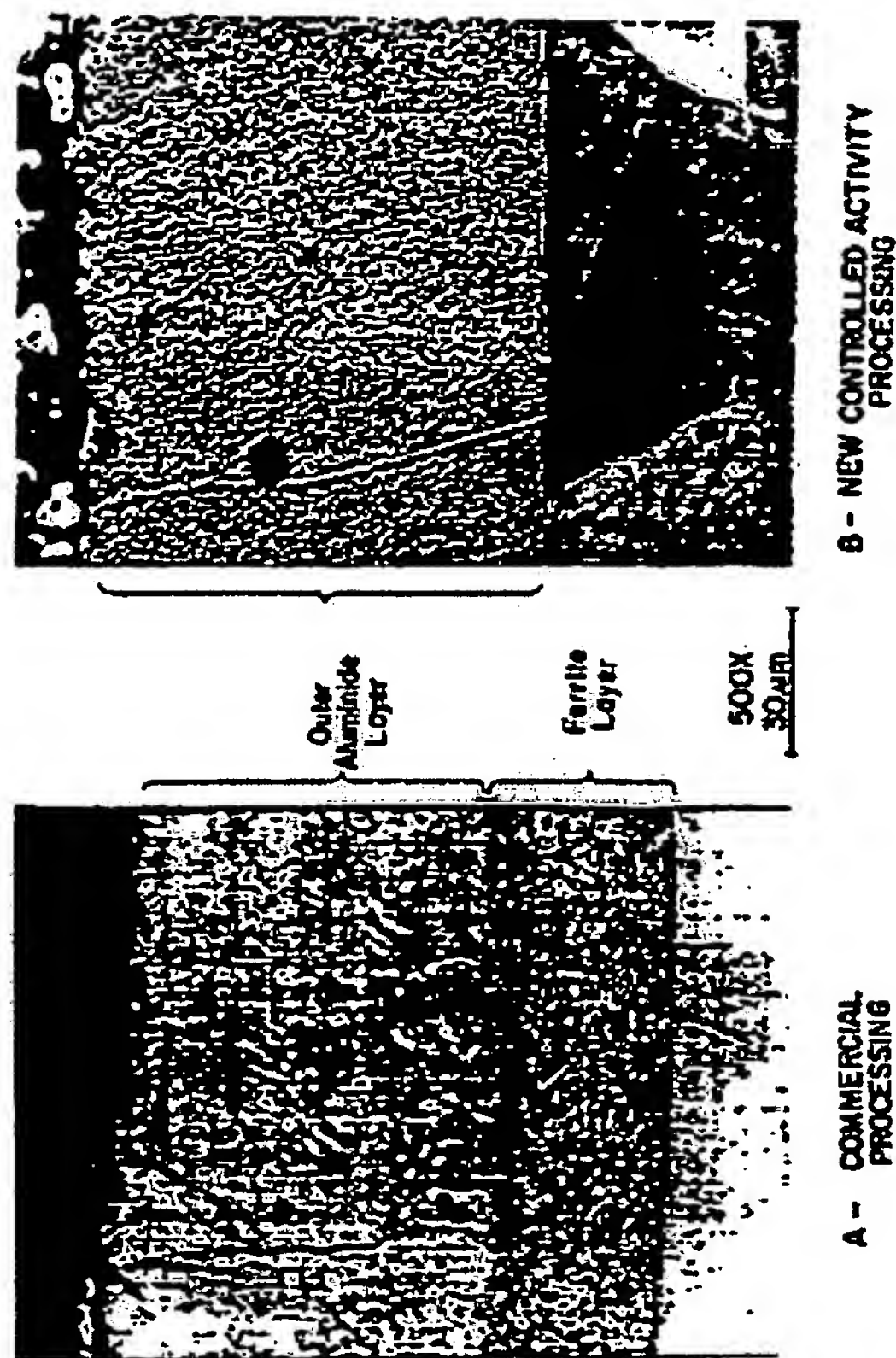


FIG 1

BEST AVAILABLE COPY